

**Fourth Semester FYUGP Degree (Reg) Examination April
2026**

**KU4VACBOT123 - BASICS OF ENVIRONMENTAL
SCIENCE**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Define sustainable development?
2. Give one impact of climate change on ecosystems.
3. State any two ethical reasons for protecting the environment.
4. Name any two disciplines integrated in Environmental Science.
5. What is an aquatic ecosystem?
6. Name the three levels of biodiversity.
7. Explain air pollution.
8. Mention any two diseases caused by water pollution.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the characteristics of aquatic ecosystems.
10. Explain the importance of biogeochemical cycles in nature.
11. Explain the impact of invasive species on native biodiversity.
12. Explain the effects of noise pollution on humans and wildlife.
13. Discuss technological methods used to control air pollution.
14. Explain the role of environmental regulations in preventing pollution.

Section C

Answer any 1 questions. Each carry 14 marks.

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15. Define climate change. Explain its causes, impacts on humans and ecosystems, and strategies for mitigation.
16. a) Explain the concept of sustainability and sustainable development. Give examples of principles and practices for sustainable living.
b) Describe how environmental science, through its interdisciplinary approach, helps solve environmental problems and promotes sustainability.